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[Michael M. Swift, Brian N. Bershad, Henry M. Levy](#)
 February 2005 **Transactions on Computer Systems (TOCS)** , Volume 23 I:
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Despite decades of research in extensible operating system technology, of system failures. In Windows XP, for example, drivers account for 85%

Keywords: I/O, Recovery, device drivers, protection, virtual memory

- 2** [Podcasting in academia: a new knowledge management paradigm v](#)
[Peter Ractham, Xuesong Zhang](#)
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[James Aweya, Michel Ouellette, Delfin Y. Montuno, Jeganathan Markandu,](#)
 January 2004 **International Journal of Network Management** , Volume
Publisher: John Wiley & Sons, Inc.
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This paper describes a prototype implementation and experimental results of a data stream over Ethernet. As explained in Part 1 of this paper, packet-

5 [A formal model for reasoning about adaptive QoS-enabled middleware](#)



Nalini Venkatasubramanian, Carolyn Talcott, Gul A. Agha


January 2004

Transactions on Software Engineering and Methodology

Publisher: ACM



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Systems that provide distributed multimedia services are subject to change. We describe how to effectively manage this change. Middleware services for resource management

Keywords: Middleware services, actors, meta-object models, multimedia services

6 [Parallelizing security checks on commodity hardware](#)



Edmund B. Nightingale, Daniel Peek, Peter M. Chen, Jason Flinn




March 2008

ASPLOS XIII: Proceedings of the 13th international conference on architecture for operating systems

Publisher: ACM



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Speck (Speculative Parallel Check) is a system that accelerates powerful parallel operations on multiple cores. Speck provides an infrastructure that allows applications to

Keywords: operating systems, parallel, performance, security, speculative execution

Also published in:

March 2008 **SIGPLAN Notices**

Volume 43 Issue 3

March 2008 **SIGARCH Computer Architecture News**

Volume 36 Issue 1

March 2008 **SIGOPS Operating Systems Review**

Volume 42 Issue 2

7 [System synthesis of synchronous multimedia applications](#)



Gang Qu, Miodrag Potkonjak

February 2003

Transactions on Embedded Computing Systems (TECS)

Publisher: ACM



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Modern system design is being increasingly driven by applications such as multimedia processing which have intrinsic quality of service (QoS) requirements, such as throughput and latency.

Keywords: high-level embedded systems synthesis, on-chip memory n

- 8 [ExecRecorder: VM-based full-system replay for attack analysis and](#)
 Daniela A. S. de Oliveira, Jedidiah R. Crandall, Gary Wassermann, S. Felix
 October 2006 **ASID '06**: Proceedings of the 1st workshop on Architectura

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Full text available:  Pdf (430.93 KB)

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Log-based recovery and replay systems are important for system reliab
 attacks. These systems must incur low space and performance overhea

Keywords: invasive software, malware, recovery, replay, virtual machi

- 9 [A smooth playback technique for progressively encoded multimedia](#)
 Azzedine Boukerche, Jing Feng, Richard W. N. Pazzi
 October 2007 **WMuNeP '07**: Proceedings of the 3rd ACM workshop on Wi

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Recent advances in wireless communication and multimedia processing
 Internet via wireless connections. However, due to the best-effort chara

Keywords: multimedia synchronization, progressive encoding, wireless

- 10 [ID CAM: A Smart Camera for Scene Capturing and ID Recognition](#)
 Nobuyuki Matsushita, Daisuke Hihara, Teruyuki Ushiro, Shinichi Yoshimura
 October 2003 **ISMAR '03**: Proceedings of the 2nd IEEE/ACM Internationa


Publisher: IEEE Computer Society

Full text available:  Pdf (6.18 MB)

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An ID recognition system is described that uses opticalbeacons and a hi
 ordinary camera and recognizes theID of a beacon emitted over a long (

- 11 [Enhanced mirrored servers for network games](#)
 Steven Daniel Webb, Sieteng Soh, William Lau
 September 2007 **NetGames '07**: Proceedings of the 6th ACM SIGCOMM wo

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The Mirrored Server (MS) architecture uses multiple mirrored servers ac
 the Client/Server (C/S) architecture. Each mirror receives and multicast

Keywords: MMOG, architecture, cheating, client/server, mirrored serve

- 12** [Understanding the effect of life-like interface agents through users' e](#)
 [Helmut Prendinger, Chunling Ma, Jin Yingzi, Arturo Nakasone, Mitsuru Ishiz](#)
 October 2005 **ICMI '05: Proceedings of the 7th international conference c**
Publisher: ACM

Full text available:  [Pdf](#) (971.77 KB)

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We motivate an approach to evaluating the utility of life-like interface a
 questionnaires. An eye tracker is employed to obtain quantitative eviden

Keywords: animated interface agents, eye tracking, user study, web-b

- 13** [The value of handhelds in smart environments](#)
[Frank Siegemund, Christian Floerkemeier, Harald Vogt](#)
 March 2005 **Personal and Ubiquitous Computing** , Volume 9 Issue 2
Publisher: Springer-Verlag


Full text available:  [Pdf](#) (545.45 KB)

Additional Information: [full citatio](#)


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The severe resource restrictions of computer-augmented everyday artif
 in smart environments. Some of these problems can be overcome by ex

Keywords: Cooperation, Device integration, Handheld devices, Mobile

- 14** [Using formal specifications to support testing](#)
 [Robert M. Hierons, Kirill Bogdanov, Jonathan P. Bowen, Rance Cleaveland,](#)
[Kalpesh Kapoor, Paul Krause, Gerald Lüttgen, Anthony J. H. Simons, Sergi](#)
 February 2009 **Computing Surveys (CSUR)** , Volume 41 Issue 2

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Formal methods and testing are two important approaches that assist ir
 these approaches have been seen as rivals, in recent years a new conse
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Keywords: Software testing, formal methods

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 September 2008 [Communications of the ACM](#)
Publisher: ACM

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- 16** [Runtime monitoring on multicores via OASES](#)
 [Vijay Nagarajan, Rajiv Gupta](#)
 April 2009 **SI GOPS Operating Systems Review** , Volume 43 Issue 2

Publisher: ACMFull text available:  Pdf (1.16 MB)Additional Information: [full citation](#)**Bibliometrics:** Downloads (6 Weeks): 13, Downloads (12 Months): 136, Download

Runtime monitoring support serves as a foundation for the important task of improving performance of applications. Often runtime monitoring requires

Keywords: atomic updates, exposed cache events, shadow memory**17** [Circuit emulation services over ethernet-part 1: clock synchronization](#)



James Aweya, Michel Ouellette, Delfin Y. Montuno, Kent Felske

January 2004 **International Journal of Network Management**, Volume**Publisher:** John Wiley & Sons, Inc.Full text available:  Pdf (260.66 KB)Additional Information: [full citation](#)**Bibliometrics:** Downloads (6 Weeks): 1, Downloads (12 Months): 12, Download



Due to Ethernet's ubiquity, simplicity, scalability and cost effectiveness, access and transport in the metropolitan network. Many service providers

18 [System Software for Audio and Visual Networked Home Appliances](#)

Tatsuo Nakajima

November 2001 **Middleware '01: Proceedings of the IFIP/ACM International****Publisher:** Springer-VerlagFull text available:  Pdf (371.41 KB)Additional Information: [full citation](#)**Bibliometrics:** Downloads (6 Weeks): 1, Downloads (12 Months): 21, Download**19** [An open architecture for transport-level protocol coordination in distributed](#) David E. Ott, Ketan Mayer-PatelAugust 2007 **Transactions on Multimedia Computing, Communication****Publisher:** ACM  [Request Permissions](#)Full text available:  Pdf (343.09 KB)Additional Information: [full citation](#)**Bibliometrics:** Downloads (6 Weeks): 9, Downloads (12 Months): 82, Download

We consider the problem of flow coordination in distributed multimedia applications that operate independently and lack mechanisms for sharing information with

Keywords: Network protocols, distributed applications, flow coordination**20** [Challenges in peer-to-peer gaming](#) Christoph Neumann, Nicolas Prigent, Matteo Varvello, Kyoungwon SuhJanuary 2007 **SIGCOMM Computer Communication Review**, Volume 37**Publisher:** ACMFull text available:  Pdf (98.56 KB)Additional Information: [full citation](#)**Bibliometrics:** Downloads (6 Weeks): 12, Downloads (12 Months): 126, Download

While multi-player online games are very successful, their fast deployment on servers both limit the scalability of the games and increase deployment

Keywords: overlay online-gaming, peer-to-peer, security

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